Michigan Refining Division

Marathon Petroleum Company LP

1300 South Fort Street
Detroit, MI 48217
Telephone 313/843-9100

VIA FEDERAL EXPRESS

October 11, 2011

Mr. Chris Ethridge
MDEQ – Air Quality Division
3058 West Grand Blvd.
Suite 2-300
Detroit, MI 48202

Re: Continuous Emissions Monitoring System Reports for the Third Quarter 2011; Marathon Petroleum Company LP – Michigan Refining Division

Dear Mr. Ethridge:

This report contains information and data related to continuous emissions monitoring systems (CEMS) at Marathon Petroleum Company LP's (MPC's) Michigan Refining Division (MRD) for the third quarter 2011. These reports are submitted pursuant to the General Provisions of the federal New Source Performance Standards (40 CFR 60.7) and Rule 1170 of the Michigan Air Pollution Control Rules. In addition, this report contains information required by the first modification to the November 2005 First Revised NSR Consent Decree, United States of America et. al. v. Marathon Petroleum Company LLC (Civil Action No. 4:01CV-40119-PVG), lodged February 7, 2008 and entered on March 31, 2008. This report is divided into four attachments as follows:

Appendix A – CEMS downtime and excess emissions summary reports pursuant to 40 CFR 60.7(d) for all environmental analyzers at the Refinery. The CEMS did not exceed the downtime limit of 5%. The excess emission limit of 1% was exceeded at the Sulfur Plant (SRU) Thermal Oxidizer and the FCCU Regenerator Opacity Monitor.

Appendix B - New Source Performance Standards (NSPS) Subpart J Alternate Monitoring Plan (AMP) data for seven streams: (1) Alky Spent Caustic H2S, (2) CCR/SR Recycle H2 H2S, (3) DHT/Unifiner Recycle H2 H2S, (4) FCCU Disulfide off-gas H2S, (5) CP Spent Caustic Drum Vent H2S, (6) SR Aromatics Sump Vent H2S, and (7) CCR Chlorsorb Vent SO2.

The Refinery has five additional AMPs for which no data is being submitted: (1) The Crude Spent Caustic Drum was permanently shutdown, (2) The BT Recycle Hydrogen, which was part of the BT Platformer unit, was permanently shutdown in September 2005, (3) CCR Lockhopper Vent Gas which currently cannot physically be vented to the flare or fuel system, (4) Propylene Deethanizer off-gas, and (5) Alky Deethanizer off-gas were re-routed to a location that the refinery's fuel gas H2S analyzer will receive the streams.

All AMPs were obtained in accordance with the NSPS General Provisions (40 CFR §60.13(i)).

Appendix C – Data from cylinder gas audits performed on CEMS located on the exhaust of the B&W Boiler, SRU Thermal Oxidizer, East Plant H2S, West Plant H2S, FCCU Regenerator, and the Zurn Boiler. A Relative Accuracy Test Audit (RATA) was conducted on the Crude and Vacuum Heaters, CCR Charge Heater, and the FCC Charge Heater in September.

Appendix D – Excess Emission Report for the SRU Thermal Oxidizer SO2 and the FCCU Regenerator Opacity exceedences of 1% excess emissions.

In October 2009 MDEQ requested MRD conduct a Calibration Gas Audit (CGA) on the Zurn O2 analyzer. MRD's stance has been that this analyzer does not apply to Appendix F, including the CGA which is detailed in Section 5 of Appendix F. However, MRD agreed to begin conducting quarterly CGAs starting first quarter 2010. The CGAs were conducted on the Zurn O2 analyzer successfully in all quarters of 2010, First thru third Quarters of 2011; although, the oxygen cylinders used to conduct the CGAs were not EPA protocol gases. MRD does not feel this is a violation, since the rule is not applicable. MRD will continue to utilize the current oxygen cylinder unless directed differently by your office. In September 2011 a new Zurn CEMS was installed and a RATA was conducted. The new analyzer will be reported in fourth quarter report.

Please note, under the refinery's Title V permit in Table E-1.3, Section III.A.1 it indicates that quarterly cylinder gas audits of the FCCU opacity monitor are required; however, a quarterly cylinder gas audit program does not exist for this type of analyzer. The refinery is maintaining the analyzer according to the PTI 28-02A and completing a yearly audit of the analyzer. The refinery has requested a wording modification in the Title V renewal.

I certify under penalty of law that this information was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my directions and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, the information in Appendices A through D of this submittal is, to the best of my knowledge and belief, true, accurate, and complete. Please contact Tabetha Daum at (313) 297-4701 if you have any questions concerning this submittal.

Sincerely,

Marathon Petroleum Company LP

By: MPC Investment LLC, General Partner

Mr. C.T. Case, Deputy Assistant Secretary

Attachments

cc: Technical Programs Unit - MDNRE: AQD – c/o Karen Kajiya-Mills – *Federal Express*

Chief, Environmental Enforcement Section, Environment and Natural Resources Division, U.S. DOJ - *Federal Express*

U.S. EPA, Director of Air Enforcement Division c/o Matrix Environmental and Geotechnical– *Federal Express*

Air and Radiation Division, U.S. EPA Region 5 – *Federal Express*

Office of Regional Counsel, U.S. EPA Region 5 – *Federal Express*

Appendix A

CEMS Downtime and Excess Emissions Summary Reports

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: BW Boiler

Monitor Model: Limas 11 (NOx)

Manufacturer: ABB

Emission Limit: 0.20 lbs/MMBTU

Average Time: daily average

Total Operating Hours of Emission Unit: 2032 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	2.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	3.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	5.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.25 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: BW Boiler (CO)

Monitor Model: URAS 14 (CO)

Manufacturer: ABB

Emission Limit: 400 ppm

Average Time: daily average

Total Operating Hours of Emission Unit: 2032 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	2.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	3.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	5.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.25 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: BW Boiler (O2)

Monitor Model: Magnos 106 (O2)

Manufacturer: ABB

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2032 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	2.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	3.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	5.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.25 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Limas 11 (NOx)

Manufacturer: ABB

Emission Limit: 123 ppm
Average Time: 7 day average
Emission Limit: 93 ppm
Average Time: 365 day average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	15.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	15.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.68 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: URAS 14 (CO)

Manufacturer: ABB

Emission Limit: 500 ppm

Average Time: one hour average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	5.00 hrs	C. QA Calibration	15.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	5.00 hrs	2. Total Duration	15.00 hrs
3. Percent of Total Excess Emissions	0.23 %	3. Percent of Total CEM Downtime	0.68 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Magnos 16 (O2)

Manufacturer: ABB

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	15.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	15.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.68 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: (SO2) NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Limas 11 (SO2)

Manufacturer: ABB

Emission Limit: 70 ppm
Average Time: 7 day average
Emission Limit: 35 ppm
Average Time: 365 day average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	15.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	15.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.68	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 (Opacity) (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Lighthawk 560

Manufacturer: Teledyne Monitor Labs

Emission Limit: 20% opacity

Average Time: 6 minute average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	45.30	hrs	C. QA Calibration	4.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	45.30	hrs	2. Total Duration	4.00	hrs
3. Percent of Total Excess Emissions	2.05	%	3. Percent of Total CEM Downtime	0.18	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS (H2S) HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: West Plant Fuel Gas NSPS Heaters

Monitor Model: 2000GC

Manufacturer: ABB

Emission Limit: 162 ppm

Average Time: 3 hour average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	2.00 hrs	C. QA Calibration	9.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	2.00 hrs	2. Total Duration	9.00 hrs
3. Percent of Total Excess Emissions	0.09 %	3. Percent of Total CEM Downtime	0.41 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS (H2S) HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: East Plant Fuel Gas NSPS Heaters

Monitor Model: 2000 Vista II

Manufacturer: ABB

Emission Limit: 162 ppm

Average Time: 3 hour average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	48.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	5.00	hrs	C. QA Calibration	8.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	5.00	hrs	2. Total Duration	56.00	hrs
3. Percent of Total Excess Emissions	0.23	%	3. Percent of Total CEM Downtime	2.54	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Zurn Boiler

Monitor Model: ENDA-1120

Manufacturer: Horiba

Emission Limit: 0.2 lbs/MMBTU

Average Time: 24 hour average

Total Operating Hours of Emission Unit: 1125 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	16.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	3.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	6.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	25.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	2.22 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Zurn Boiler

Monitor Model: ZA8

Manufacturer: Yokagowa

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 1125 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	16.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	3.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	6.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	25.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	2.22 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: (SO2) NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Sulfur Recovery Unit Thermal Oxidizer

Monitor Model: LIMAS-11-UV

Manufacturer: ABB Advance Optima

Emission Limit: 250 ppm

Average Time: 12 hour average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	6.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	35.00	hrs	C. QA Calibration	8.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	35.00	hrs	2. Total Duration	14.00	hrs
3. Percent of Total Excess Emissions	1.59	%	3. Percent of Total CEM Downtime	0.63	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Sulfur Recovery Unit Thermal Oxidizer

Monitor Model: MAGNOS 106/206

Manufacturer: ABB Advance Optima

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	6.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	8.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	14.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.63 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: CCR Charge Heater (CO)

Monitor Model: URAS 14 (CO)

Manufacturer: ABB

Emission Limit: 400 ppm

Average Time: daily average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	0.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	0.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.00 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: CCR Charge Heater (O2)

Monitor Model: Magnos 106 (O2)

Manufacturer: ABB

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	0.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	0.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.00 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Charge Heater

Monitor Model: URAS 14 (CO)

Manufacturer: ABB

Emission Limit: 400 ppm

Average Time: 1 hour average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	3.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	3.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.14 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Charge Heater

Monitor Model: Magnos 106 (O2)

Manufacturer: ABB

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	3.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	3.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.14 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Crude/Vacuum Charge Heater

Monitor Model: Limas 11 (NOx)

Manufacturer: ABB

Emission Limit: 0.05 lbs/MMBTU

Average Time: annual rolling average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	31.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	2.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	33.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	1.49 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Crude/Vacuum Charge Heater (O2)

Monitor Model: Magnos 106 (O2)

Manufacturer: ABB

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	31.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	2.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	33.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	1.49	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Vents to CP Flare

Monitor Model: SLX-202

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	0.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes*	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	0.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.00	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Vents to Alkylation Unit Flare

Monitor Model: SLX-202

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	0.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes*	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	0.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.00	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Vents to Unifiner Flare

Monitor Model: SLX-202

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	1.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	0.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes*	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	1.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.05 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Third 2011

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Vents to Crude Flare

Monitor Model: SLX-202

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	5.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	0.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes*	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	5.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.23	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Appendix B

New Source Performance Standards (NSPS) Subpart J Alternate Monitoring Plan (AMP) Data

Alternative Monitoring Plan Data

Date	Alky Spent Caustic H2S ppm When flaring	CCR/SR Recycle H2 H2S ppm 2 x year	DHT/Unifiner Recycle H2 H2S ppm 5 x week	
7/1/2011		<1	<1	
7/2/2011		<1	10	*
7/3/2011		<1	30	*
7/4/2011		<1	30	*
7/5/2011		<1	20	*
7/6/2011		<1	<1	
7/7/2011		<1	<1	
7/8/2011		<1	30	*
7/9/2011		<1	3	*
7/10/2011		<1	20	*
7/11/2011		<1	20	*
7/12/2011		<1	30	*
7/13/2011		<1	<1	
7/14/2011		<1	<1	
7/15/2011		<1	<1	
7/16/2011		<1	<1	
7/17/2011		<1	10	*
7/18/2011		<1	<1	
7/19/2011		<1	<1	
7/20/2011		<1	<1	
7/21/2011		<1	<1	
7/22/2011		<1	<1	
7/23/2011		<1	<1	
7/24/2011		<1	<1	
7/25/2011		<1	<1	
7/26/2011		<1	6	*
7/27/2011		<1	<1	
7/28/2011		<1	<1	
7/29/2011		<1	10	*
7/30/2011		<1	--	
7/31/2011		<1	--	
8/1/2011		<1	--	
8/2/2011		<1	--	
8/3/2011	0	<1	<1	
8/4/2011	0	<1	<1	
8/5/2011	0	<1	<1	
8/6/2011		<1	<1	
8/7/2011		<1	<1	
8/8/2011		<1	<1	
8/9/2011		<1	<1	
8/10/2011		<1	<1	
8/11/2011		<1	<1	
8/12/2011		<1	<1	
8/13/2011		<1	<1	
8/14/2011		<1	<1	
8/15/2011		<1	<1	
8/16/2011		<1	<1	
8/17/2011		<1	<1	
8/18/2011		<1	<1	
8/19/2011		<1	<1	
8/20/2011		<1	<1	

*No flaring occurred.

Alternative Monitoring Plan Data

Date	Alky Spent Caustic H2S ppm When flaring	CCR/SR Recycle H2 H2S ppm 2 x year	DHT/Unifiner Recycle H2 H2S ppm 5 x week
8/21/2011		<1	<1
8/22/2011		<1	<1
8/23/2011		<1	<1
8/24/2011		<1	<1
8/25/2011		<1	<1
8/26/2011		Unit Down	<1
8/27/2011		Unit Down	<1
8/28/2011		Unit Down	<1
8/29/2011		Unit Down	<1
8/30/2011		<1	<1
8/31/2011	0	<1	<1
9/1/2011		15	<1
9/2/2011		5	<1
9/3/2011		<1	<1
9/4/2011		<1	<1
9/5/2011		<1	<1
9/6/2011		<1	<1
9/7/2011		<1	<1
9/8/2011		<1	<1
9/9/2011		<1	Unit Down
9/10/2011		<1	<1
9/11/2011		<1	<1
9/12/2011		<1	<1
9/13/2011		<1	<1
9/14/2011		<1	<1
9/15/2011		<1	<1
9/16/2011		<1	<1
9/17/2011		<1	<1
9/18/2011		<1	<1
9/19/2011		<1	<1
9/20/2011		<1	<1
9/21/2011		<1	<1
9/22/2011		<1	<1
9/23/2011		<1	<1
9/24/2011		<1	<1
9/25/2011		<1	<1
9/26/2011		<1	<1
9/27/2011		<1	<1
9/28/2011		<1	<1
9/29/2011		<1	<1
9/30/2011		<1	<1

Most Recent Sample Dates	FCCU Disulfide off-gas H2S ppm 2 x year	Most Recent Sample Dates	CP Spent Caustic Drum Vent H2S ppm 2 x year	Most Recent Sample Dates	SR Aromatics Sump Vent H2S ppm 2 x year	Most Recent Sample Dates	CCR Chlorsorb Vent SO2 ppm 2 x year
5/4/2011	0	5/5/2011	0	6/30/2011	0	6/29/2011	0
7/5/2011	0	7/5/2011	0	9/21/2011	0	9/21/2011	0

*No flaring occurred.

Appendix C

Cylinder Gas Audit Information

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: East Plant Fuel Gas

Analyzer Manufacturer: ABB

Analyzer model #'s: 2000 VISTA II

Constituents monitored (w/ranges): H2S (0-300)

Date CGA performed: 7/21/2011

Performed by: Eric Justa and Doug Pek

Analyzer: West Plant Fuel Gas

Analyzer Manufacturer: ABB

Analyzer model #'s: 2000GC

Constituents monitored (w/ranges): H2S (0-300)

Date CGA performed: 7/26/2011

Performed by: Eric Justa and Bryan Longtine

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-017	H2S	low	EB0028210	02/22/12	76.6	ppm
76-188-019	H2S	mid	EB0024602	11/09/11	162	ppm

East Plant Fuel Gas

Low-level CGA:

Start time	End time	H2S
10:31	10:36	68.8
10:36	10:41	68.7
10:41	10:46	68.6
Average		68.7
Cal gas value		76.6
CGA accuracy		10.3%

Mid-level CGA:

Start time	End time	H2S
10:51	10:56	151.5
10:56	11:01	151.1
11:01	11:06	151.8
Average		151.5
Cal gas value		162.0
CGA accuracy		6.5%

West Plant Fuel Gas

Low-level CGA:

Start time	End time	H2S
10:52	10:56	73.9
10:56	11:00	72.5
11:00	11:05	73.2
Average		73.2
Cal gas value		76.6
CGA accuracy		4.5%

Mid-level CGA:

Start time	End time	H2S
11:05	11:09	158
11:09	11:12	159
11:12	11:16	160
Average		159
Cal gas value		162
CGA accuracy		1.8%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: Zurn Boiler NOx and O2

Analyzer Manufacturer: Horiba (NOx) and Yokagowa (O2)

Analyzer model #'s: ENDA-1120 (NOx) and ZA8 (O2)

Constituents monitored (w/ranges): NOx (0-500) O2 (0-10%)

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-232	NO	low	EB0025464	02/02/13	120	ppm
76-188-219	O2	low	109-06-03330	05/27/12	2.00	%
76-188-231	NO	mid	EB0025358	10/08/12	270	ppm
76-188-215	O2	mid	MA116181	01/20/14	8.00	%

NOx Analyzer

Date CGA performed: 9/13/2011
Performed by: Doug Pek and Eric Justa

Low-level CGA:

Start time	End time	NO
9:42	9:51	118
9:51	10:00	118
10:00	10:09	118
Average		118
Cal gas value		120.0
CGA accuracy		1.7%

Mid-level CGA:

Start time	End time	NO
10:09	10:18	268
10:18	10:27	268
10:27	10:36	268
Average		268
Cal gas value		270
CGA accuracy		0.7%

O2 Analyzer

Date CGA performed: 9/13/2011
Performed by: Doug Pek and Eric Justa

Low-level CGA:

Start time	End time	O2
11:08	11:09	1.92
11:09	11:10	1.92
11:10	11:11	1.92
Average		1.92
Cal gas value		2.00
CGA accuracy		4.0%

Mid-level CGA:

Start time	End time	O2
11:12	11:13	8.13
11:13	11:14	8.15
11:14	11:15	8.14
Average		8.14
Cal gas value		8.00
CGA accuracy		1.8%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: B&W Boiler CEMS

Analyzer Manufacturer: ABB

Analyzer model #'s: Limas 11 (NOx), Magnos 106 (O2), Uras 14 (CO)

Constituents monitored (w/ranges): NOx (0-500), CO (0-500), O2 (0-10%)

Date CGA performed: 7/12/2011

Performed by: Doug Pek and Eric Justa

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-232	NO	low	CC320264	01/08/12	128	ppm
76-188-232	CO	low	CC320264	01/08/12	125	ppm
76-188-219	O2	low	CC275906	04/04/14	5.54	%
76-188-231	NO	mid	EB0029228	03/30/13	269	ppm
76-188-231	CO	mid	EB0029228	03/30/13	274	ppm
76-188-215	O2	mid	EB003822	06/17/12	8.99	%

Low-level CGA:

Start time	End time	NO	CO	O2
9:41	9:53	126.6	125	5.54
9:53	10:05	126.4	125	5.54
10:05	10:17	126.4	125	5.54
Average		126.5	125	5.54
Cal gas value		128.0	125	5.54
CGA accuracy		1.2%	0.2%	0.0%

High-level CGA:

Start time	End time	NO	CO	O2
10:17	10:30	269.5	274	8.97
10:30	10:42	269.5	274	8.97
10:42	10:54	269.5	274	8.97
Average		269.5	274	8.97
Cal gas value		269.0	274	8.99
CGA accuracy		0.2%	0.0%	0.2%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LLC - Michigan Refining Division

Analyzer: FCCU Regenerator exhaust CEMS

Analyzer Manufacturer: ABB

Analyzer model #'s: Limas 11 (SO2/NOx), Magnos 106 (O2), Uras 14 (CO/CO2)

Constituents monitored (w/ranges): SO2 (0-200), NOx (0-200), CO (0-1000), CO2 (0-20%), O2 (0-10%)

Date CGA performed: 8/30/2011

Performed by: Doug Pek and Eric Justa

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-218	SO2	low	EB0014006	11/15/13	47.7	ppm
76-188-218	NO	low			49.6	ppm
76-188-218	CO	low			247	ppm
76-188-218	CO2	low			6.53	%
76-188-219	O2	low	SG9110902	09/07/13	5.52	%
76-188-213	SO2	mid	EB0026259	6/10/13	111	ppm
76-188-213	NO	mid			115	ppm
76-188-213	CO	mid			543	ppm
76-188-213	CO2	mid			12.2	%
76-188-215	O2	mid	EB0003622	06/17/12	8.99	%
76-188-215	NO2	mid			94.7	ppm

Low-level CGA:

Start time	End time	SO2	NO	CO	CO2	O2
10:13	10:27	44	54.7	255	6.72	5.55
10:27	10:40	40	53.7	255	6.73	5.55
10:40	10:54	43	52	256	6.75	5.55
Average		42	53	255	6.73	5.55
Cal gas value		47.7	49.6	247.0	6.53	5.52
CGA accuracy		11.3%	7.8%	3.4%	3.1%	0.5%

Mid-level CGA:

Start time	End time	SO2	NO	CO	CO2	O2
10:54	11:06	110	115	545	12.2	9.02
11:06	11:19	110	115	545	12.2	9.03
11:19	11:32	112	115	545	12.2	9.03
Average		111	115	545	12.2	9.03
Cal gas value		111	115.0	543	12.2	8.99
CGA accuracy		0.3%	0.0%	0.4%	0.0%	0.4%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: SRU Thermal Oxidizer SO2

Analyzer Manufacturer: ABB Advance Optima

Analyzer model #'s: LIMAS-11-UV (SO2) and MAGNOS 106/206 (O2)

Constituents monitored (w/ranges): SO2 (0-500) O2 (0-10%)

Date CGA performed: 9/23/2011

Performed by: Doug Pek and Glen Senczyszyn

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-232	SO2	low	EB0027779	01/31/13	129.0	ppm
76-188-219	O2	low	EB0027779	01/31/13	5.50	%
76-188-231	SO2	mid	CC316237	01/31/13	279	ppm
76-188-215	O2	mid	CC316237	01/31/13	9.01	%

Low-level CGA:

Start time	End time	SO2	O2
19:01	19:02	127.4	5.56
19:02	19:03	127.4	5.56
19:03	19:04	127.3	5.56
Average		127.4	5.56
Cal gas value		129	5.5
CGA accuracy		1.3%	1.1%

Mid-level CGA:

Start time	End time	SO2	O2
19:34	19:35	269.8	9.03
19:35	19:36	270.2	9.03
19:36	19:37	271.4	9.03
Average		270.5	9.03
Cal gas value		279	9.0
CGA accuracy		3.1%	0.2%

Appendix D

Excess Emission Report

Excess Emission Report
Third Quarter 2011
Marathon Petroleum Company LP - Michigan Refining Division
Time Periods are Approximate

SRU Thermal Oxidizer

Start Date/Time*	End Date/Time*	Duration of Downtime (hrs)	Equipment	Emissions (ppm 12 hr ave)**	Cause	Corrective Action
07/03 16:05	07/03 17:05	1 hrs	SRU	252	On 7/5/2011 the FCCU Regenerator inadvertently tripped off line while conducting preventative maintenance on the back up power to the emergency shutdown system in the Gas Con Unit.	The refinery responded to the upset issues and stabilized the operation of the units. The Startup, Shutdown, and Malfunction (SSM) Plan was followed properly per the MACT rules.
07/03 17:05	07/03 18:05	1 hrs	SRU	258		
07/03 18:05	07/03 19:05	1 hrs	SRU	262		
07/03 19:05	07/03 20:05	1 hrs	SRU	264		
07/03 20:05	07/03 21:05	1 hrs	SRU	265		
07/03 21:05	07/03 22:05	1 hrs	SRU	266		
07/03 22:05	07/03 23:05	1 hrs	SRU	266		
07/03 23:05	07/04 00:05	1 hrs	SRU	269		
07/04 00:05	07/04 01:05	1 hrs	SRU	268		
07/04 01:05	07/04 02:05	1 hrs	SRU	254		
08/25 10:05	08/25 11:05	1 hrs	SRU	263	At 6:20 AM on August 25, 2011, a lighting strike hit ITC structure 3001 which is approximately 4 miles from the refinery. The lightning strike caused all three phases of the 120 KV line to be felled to ground resulting in the loss of Detroit Edison's (DTE's) Transformer #102 in Ironton and a lockout of bus 102 at their Ironton Substation. As a result of the lightning strike and resulting external power failure, the Refinery shut down its operations and stabilized units.	Upon initial review, consistent with EPA's Startup Shutdown Malfunction (SSM) policy, this event qualifies for the NSPS SSM exemption as provided in 40 CFR 60.8. Specifically, events not caused by poor operation, maintenance, or design of process or control equipment are exempt from the NSPS limits provided that the emissions were minimized consistent with good air pollution control practices and repairs were made in an expeditious fashion. In this case, the emission event was caused by a lightning strike and a subsequent external power failure beyond MPC's control. MPC took immediate action to minimize emissions by shutting down the refinery operations with the exception of the FCCU. The FCCU emissions were minimized by reducing rate which in turn avoided any excess emissions that would have resulted from a subsequent FCCU startup. Furthermore, the steam produced by the FCCU ensured good flare combustion. Finally, crews worked through the night to ensure that the damaged boiler was expeditiously repaired and returned to service producing steam for the flares and the safe startup of the process units.
08/25 11:05	08/25 12:05	1 hrs	SRU	317		
08/25 12:05	08/25 13:05	1 hrs	SRU	362		
08/25 13:05	08/25 14:05	1 hrs	SRU	427		
08/25 14:05	08/25 15:05	1 hrs	SRU	497		
08/25 15:05	08/25 16:05	1 hrs	SRU	557		
08/25 16:05	08/25 17:05	1 hrs	SRU	620		
08/25 17:05	08/25 18:05	1 hrs	SRU	682		
08/25 18:05	08/25 19:05	1 hrs	SRU	720		
08/25 19:05	08/25 20:05	1 hrs	SRU	743		
08/25 20:05	08/25 21:05	1 hrs	SRU	798		
08/25 21:05	08/25 22:05	1 hrs	SRU	826		
08/25 22:05	08/25 23:05	1 hrs	SRU	841		
08/25 23:05	08/26 00:05	1 hrs	SRU	848		
08/26 00:05	08/26 01:05	1 hrs	SRU	864		
08/26 01:05	08/26 02:05	1 hrs	SRU	813		
08/26 02:05	08/26 03:05	1 hrs	SRU	750		
08/26 03:05	08/26 04:05	1 hrs	SRU	696		
08/26 04:05	08/26 05:05	1 hrs	SRU	638		
08/26 05:05	08/26 06:05	1 hrs	SRU	582		
08/26 06:05	08/26 07:05	1 hrs	SRU	527		
08/26 07:05	08/26 08:05	1 hrs	SRU	470		
08/26 08:05	08/26 09:05	1 hrs	SRU	411		
08/26 09:05	08/26 10:05	1 hrs	SRU	353		
08/26 10:05	08/26 11:05	1 hrs	SRU	295		
	Total	**35 hrs**				
	Operating Hours	**2208**				
	% Excess Emissions	**1.59**				

*The start time and end time are approximate.
**Emission limit is 250 ppm SO2 (12 hour average)

Excess Emission Report
Third Quarter 2011
Marathon Petroleum Company LP - Michigan Refining Division
Time Periods are Approximate

FCCU Opacity

Start Date/Time*	End Date/Time*	Duration of Excess Emissions (6 minute average)	Equipment	Opacity (>20%)**	Cause	Corrective Action
07/05 12:53	07/05 12:59	1	FCCU Opacity	43	On 7/5/2011 the FCCU Regenerator inadvertently tripped off line while conducting preventative maintenance on the back up power to the emergency shutdown system in the Gas Con Unit.	The refinery responded to the upset issues and stabilized the operation of the units. The Startup, Shutdown, and Malfunction (SSM) Plan was followed properly per the MACT rules.
07/05 12:59	07/05 13:05	1	FCCU Opacity	23		
07/05 13:05	07/05 13:11	1	FCCU Opacity	28		
07/05 13:11	07/05 13:17	1	FCCU Opacity	59		
07/05 13:17	07/05 13:23	1	FCCU Opacity	37		
07/05 13:23	07/05 13:29	1	FCCU Opacity	34		
07/05 13:29	07/05 13:35	1	FCCU Opacity	28		
07/05 13:35	07/05 13:41	1	FCCU Opacity	26		
07/05 13:41	07/05 13:47	1	FCCU Opacity	24		
07/05 13:47	07/05 13:53	1	FCCU Opacity	25		
07/05 13:53	07/05 13:59	1	FCCU Opacity	24		
07/05 14:05	07/05 14:11	1	FCCU Opacity	24		
07/05 14:11	07/05 14:17	1	FCCU Opacity	22		
07/05 14:17	07/05 14:23	1	FCCU Opacity	23		
07/05 14:23	07/05 14:29	1	FCCU Opacity	23		
07/05 14:29	07/05 14:35	1	FCCU Opacity	22		
07/05 14:35	07/05 14:41	1	FCCU Opacity	24		
07/05 14:41	07/05 14:47	1	FCCU Opacity	27		
07/05 14:47	07/05 14:53	1	FCCU Opacity	26		
07/05 14:53	07/05 14:59	1	FCCU Opacity	25		
07/05 14:59	07/05 15:05	1	FCCU Opacity	22		
07/05 16:11	07/05 16:17	1	FCCU Opacity	36		
07/05 16:17	07/05 16:23	1	FCCU Opacity	24		
07/05 16:23	07/05 16:29	1	FCCU Opacity	24		
07/05 16:29	07/05 16:35	1	FCCU Opacity	24		
07/05 16:35	07/05 16:41	1	FCCU Opacity	21		
07/05 16:41	07/05 16:47	1	FCCU Opacity	21		
07/05 16:47	07/05 16:53	1	FCCU Opacity	22		
07/05 16:53	07/05 16:59	1	FCCU Opacity	22		
07/05 16:59	07/05 17:05	1	FCCU Opacity	22		
07/05 17:05	07/05 17:11	1	FCCU Opacity	23		
07/05 17:17	07/05 17:23	1	FCCU Opacity	24		
07/05 17:23	07/05 17:29	1	FCCU Opacity	24		
07/05 17:29	07/05 17:35	1	FCCU Opacity	24		
07/05 17:35	07/05 17:41	1	FCCU Opacity	22		
07/05 17:41	07/05 17:47	1	FCCU Opacity	21		
07/05 17:47	07/05 17:53	1	FCCU Opacity	21		
07/05 17:53	07/05 17:59	1	FCCU Opacity	21		
07/05 17:59	07/05 18:05	1	FCCU Opacity	21		
07/31 10:05	07/31 10:11	1	FCCU Opacity	36	Electrical issue caused the FCCU feed pumps to shut down and therefore reducing rate to the unit. The sudden rate reduction caused excess CO which tripped the ESPs.	Unit was stabilized and the ESPs were brought back on line.
07/31 10:11	07/31 10:17	1	FCCU Opacity	26		
07/31 10:17	07/31 10:23	1	FCCU Opacity	25		
07/31 10:23	07/31 10:29	1	FCCU Opacity	25		
07/31 10:29	07/31 10:35	1	FCCU Opacity	24		
07/31 10:35	07/31 10:41	1	FCCU Opacity	23		
07/31 10:41	07/31 10:47	1	FCCU Opacity	23		
07/31 10:47	07/31 10:53	1	FCCU Opacity	22		
07/31 11:00	07/31 11:05	1	FCCU Opacity	64		

Excess Emission Report
Third Quarter 2011
Marathon Petroleum Company LP - Michigan Refining Division
Time Periods are Approximate

FCCU Opacity

Start Date/Time*	End Date/Time*	Duration of Excess Emissions (6 minute average)	Equipment	Opacity (>20%)**	Cause	Corrective Action
08/25 06:23	08/25 06:29	1	FCCU Opacity	31	At 6:20 AM on August 25, 2011, a lighting strike hit ITC structure 3001 which is approximately 4 miles from the refinery. The lightning strike caused all three phases of the 120 KV line to be felled to ground resulting in the loss of Detroit Edison's (DTE's) Transformer #102 in Ironton and a lockout of bus 102 at their Ironton Substation. As a result of the lightning strike and resulting external power failure, the Refinery shut down its operations and stabilized units.	Upon initial review, consistent with EPA's Startup Shutdown Malfunction (SSM) policy, this event qualifies for the NSPS SSM exemption as provided in 40 CFR 60.8. Specifically, events not caused by poor operation, maintenance, or design of process or control equipment are exempt from the NSPS limits provided that the emissions were minimized consistent with good air pollution control practices and repairs were made in an expeditious fashion. In this case, the emission event was caused by a lightning strike and a subsequent external power failure beyond MPC's control. MPC took immediate action to minimize emissions by shutting down the refinery operations with the exception of the FCCU. The FCCU emissions were minimized by reducing rate which in turn avoided any excess emissions that would have resulted from a subsequent FCCU startup. Furthermore, the steam produced by the FCCU ensured good flare combustion. Finally, crews worked through the night to ensure that the damaged boiler was expeditiously repaired and returned to service producing steam for the flares and the safe startup of the process units.
08/25 06:29	08/25 06:35	1	FCCU Opacity	22		
08/25 06:35	08/25 06:41	1	FCCU Opacity	21		
08/25 06:41	08/25 06:47	1	FCCU Opacity	21		
08/25 07:41	08/25 07:47	1	FCCU Opacity	21		
08/25 07:53	08/25 07:59	1	FCCU Opacity	25		
08/25 08:53	08/25 08:59	1	FCCU Opacity	31		
08/25 08:59	08/25 09:05	1	FCCU Opacity	22		
08/25 09:05	08/25 09:11	1	FCCU Opacity	22		
08/25 09:11	08/25 09:17	1	FCCU Opacity	22		
08/25 09:17	08/25 09:23	1	FCCU Opacity	22		
08/25 09:23	08/25 09:29	1	FCCU Opacity	22		
08/25 09:29	08/25 09:35	1	FCCU Opacity	23		
08/25 09:35	08/25 09:41	1	FCCU Opacity	23		
08/25 09:41	08/25 09:47	1	FCCU Opacity	23		
08/25 09:47	08/25 09:53	1	FCCU Opacity	23		
08/25 09:53	08/25 09:59	1	FCCU Opacity	23		
08/25 10:05	08/25 10:11	1	FCCU Opacity	23		
08/25 10:11	08/25 10:17	1	FCCU Opacity	23		
08/25 10:17	08/25 10:23	1	FCCU Opacity	24		
08/25 10:23	08/25 10:29	1	FCCU Opacity	23		
08/25 10:29	08/25 10:35	1	FCCU Opacity	23		
08/25 10:35	08/25 10:41	1	FCCU Opacity	23		
08/25 10:41	08/25 10:47	1	FCCU Opacity	24		
08/25 10:47	08/25 10:53	1	FCCU Opacity	23		
08/25 10:53	08/25 10:59	1	FCCU Opacity	24		
08/25 10:59	08/25 11:05	1	FCCU Opacity	24		
08/25 11:11	08/25 11:17	1	FCCU Opacity	24		
08/25 11:17	08/25 11:23	1	FCCU Opacity	24		
08/25 11:23	08/25 11:29	1	FCCU Opacity	24		
08/25 11:29	08/25 11:35	1	FCCU Opacity	24		
08/25 11:35	08/25 11:41	1	FCCU Opacity	24		
08/25 11:41	08/25 11:47	1	FCCU Opacity	24		
08/25 11:47	08/25 11:53	1	FCCU Opacity	24		
08/25 11:53	08/25 11:59	1	FCCU Opacity	24		
08/25 11:59	08/25 12:05	1	FCCU Opacity	24		
08/25 12:05	08/25 12:11	1	FCCU Opacity	24		
08/25 12:17	08/25 12:23	1	FCCU Opacity	25		
08/25 12:23	08/25 12:29	1	FCCU Opacity	25		
08/25 12:29	08/25 12:35	1	FCCU Opacity	25		
08/25 12:35	08/25 12:41	1	FCCU Opacity	25		
08/25 12:41	08/25 12:47	1	FCCU Opacity	25		
08/25 12:47	08/25 12:53	1	FCCU Opacity	25		
08/25 12:53	08/25 12:59	1	FCCU Opacity	25		
08/25 12:59	08/25 13:05	1	FCCU Opacity	25		

Excess Emission Report
Third Quarter 2011
Marathon Petroleum Company LP - Michigan Refining Division
Time Periods are Approximate

FCCU Opacity

Start Date/Time*	End Date/Time*	Duration of Excess Emissions (6 minute average)	Equipment	Opacity (>20%)**	Cause	Corrective Action
08/25 13:05	08/25 13:11	1	FCCU Opacity	25	At 6:20 AM on August 25, 2011, a lighting strike hit ITC structure 3001 which is approximately 4 miles from the refinery. The lightning strike caused all three phases of the 120 KV line to be felled to ground resulting in the loss of Detroit Edison's (DTE's) Transformer #102 in Ironton and a lockout of bus 102 at their Ironton Substation. As a result of the lightning strike and resulting external power failure, the Refinery shut down its operations and stabilized units.	Upon initial review, consistent with EPA's Startup Shutdown Malfunction (SSM) policy, this event qualifies for the NSPS SSM exemption as provided in 40 CFR 60.8. Specifically, events not caused by poor operation, maintenance, or design of process or control equipment are exempt from the NSPS limits provided that the emissions were minimized consistent with good air pollution control practices and repairs were made in an expeditious fashion. In this case, the emission event was caused by a lightning strike and a subsequent external power failure beyond MPC's control. MPC took immediate action to minimize emissions by shutting down the refinery operations with the exception of the FCCU. The FCCU emissions were minimized by reducing rate which in turn avoided any excess emissions that would have resulted from a subsequent FCCU startup. Furthermore, the steam produced by the FCCU ensured good flare combustion. Finally, crews worked through the night to ensure that the damaged boiler was expeditiously repaired and returned to service producing steam for the flares and the safe startup of the process units.
08/25 13:11	08/25 13:17	1	FCCU Opacity	25		
08/25 13:23	08/25 13:29	1	FCCU Opacity	25		
08/25 13:29	08/25 13:35	1	FCCU Opacity	25		
08/25 13:35	08/25 13:41	1	FCCU Opacity	25		
08/25 13:41	08/25 13:47	1	FCCU Opacity	25		
08/25 13:47	08/25 13:53	1	FCCU Opacity	25		
08/25 13:53	08/25 13:59	1	FCCU Opacity	25		
08/25 13:59	08/25 14:05	1	FCCU Opacity	25		
08/25 14:05	08/25 14:11	1	FCCU Opacity	25		
08/25 14:11	08/25 14:17	1	FCCU Opacity	25		
08/25 14:17	08/25 14:23	1	FCCU Opacity	25		
08/25 14:29	08/25 14:35	1	FCCU Opacity	26		
08/25 14:35	08/25 14:41	1	FCCU Opacity	26		
08/25 14:41	08/25 14:47	1	FCCU Opacity	26		
08/25 14:47	08/25 14:53	1	FCCU Opacity	26		
08/25 14:53	08/25 14:59	1	FCCU Opacity	26		
08/25 14:59	08/25 15:05	1	FCCU Opacity	26		
08/25 15:05	08/25 15:11	1	FCCU Opacity	26		
08/25 15:11	08/25 15:17	1	FCCU Opacity	26		
08/25 15:17	08/25 15:23	1	FCCU Opacity	26		
08/25 15:23	08/25 15:29	1	FCCU Opacity	26		
08/25 15:35	08/25 15:41	1	FCCU Opacity	26		
08/25 15:41	08/25 15:47	1	FCCU Opacity	27		
08/25 15:47	08/25 15:53	1	FCCU Opacity	26		
08/25 15:53	08/25 15:59	1	FCCU Opacity	26		
08/25 15:59	08/25 16:05	1	FCCU Opacity	27		
08/25 16:05	08/25 16:11	1	FCCU Opacity	27		
08/25 16:11	08/25 16:17	1	FCCU Opacity	26		
08/25 16:17	08/25 16:23	1	FCCU Opacity	26		
08/25 16:23	08/25 16:29	1	FCCU Opacity	27		
08/25 16:29	08/25 16:35	1	FCCU Opacity	27		
08/25 16:41	08/25 16:47	1	FCCU Opacity	27		
08/25 16:47	08/25 16:53	1	FCCU Opacity	26		
08/25 16:53	08/25 16:59	1	FCCU Opacity	26		
08/25 16:59	08/25 17:05	1	FCCU Opacity	26		
08/25 17:05	08/25 17:11	1	FCCU Opacity	26		
08/25 17:11	08/25 17:17	1	FCCU Opacity	26		
08/25 17:17	08/25 17:23	1	FCCU Opacity	27		
08/25 17:23	08/25 17:29	1	FCCU Opacity	27		
08/25 17:29	08/25 17:35	1	FCCU Opacity	27		
08/25 17:35	08/25 17:41	1	FCCU Opacity	27		
08/25 17:47	08/25 17:53	1	FCCU Opacity	27		
08/25 17:53	08/25 17:59	1	FCCU Opacity	26		
08/25 17:59	08/25 18:05	1	FCCU Opacity	27		
08/25 18:05	08/25 18:11	1	FCCU Opacity	27		
08/25 18:11	08/25 18:17	1	FCCU Opacity	27		
08/25 18:17	08/25 18:23	1	FCCU Opacity	27		
08/25 18:23	08/25 18:29	1	FCCU Opacity	27		
08/25 18:29	08/25 18:35	1	FCCU Opacity	27		
08/25 18:35	08/25 18:41	1	FCCU Opacity	27		
08/25 18:41	08/25 18:47	1	FCCU Opacity	27		
08/25 18:53	08/25 18:59	1	FCCU Opacity	27		
08/25 18:59	08/25 19:05	1	FCCU Opacity	27		
08/25 19:05	08/25 19:11	1	FCCU Opacity	27		
08/25 19:11	08/25 19:17	1	FCCU Opacity	27		
08/25 19:17	08/25 19:23	1	FCCU Opacity	27		
08/25 19:23	08/25 19:29	1	FCCU Opacity	27		
08/25 19:29	08/25 19:35	1	FCCU Opacity	27		
08/25 19:35	08/25 19:41	1	FCCU Opacity	27		

Excess Emission Report
Third Quarter 2011
Marathon Petroleum Company LP - Michigan Refining Division
Time Periods are Approximate

FCCU Opacity

Start Date/Time*	End Date/Time*	Duration of Excess Emissions (6 minute average)	Equipment	Opacity (>20%)**	Cause	Corrective Action
08/25 19:41	08/25 19:47	1	FCCU Opacity	27	At 6:20 AM on August 25, 2011, a lighting strike hit ITC structure 3001 which is approximately 4 miles from the refinery. The lightning strike caused all three phases of the 120 KV line to be felled to ground resulting in the loss of Detroit Edison's (DTE's) Transformer #102 in Ironton and a lockout of bus 102 at their Ironton Substation. As a result of the lightning strike and resulting external power failure, the Refinery shut down its operations and stabilized units.	Upon initial review, consistent with EPA's Startup Shutdown Malfunction (SSM) policy, this event qualifies for the NSPS SSM exemption as provided in 40 CFR 60.8. Specifically, events not caused by poor operation, maintenance, or design of process or control equipment are exempt from the NSPS limits provided that the emissions were minimized consistent with good air pollution control practices and repairs were made in an expeditious fashion. In this case, the emission event was caused by a lightning strike and a subsequent external power failure beyond MPC's control. MPC took immediate action to minimize emissions by shutting down the refinery operations with the exception of the FCCU. The FCCU emissions were minimized by reducing rate which in turn avoided any excess emissions that would have resulted from a subsequent FCCU startup. Furthermore, the steam produced by the FCCU ensured good flare combustion. Finally, crews worked through the night to ensure that the damaged boiler was expeditiously repaired and returned to service producing steam for the flares and the safe startup of the process units.
08/25 19:47	08/25 19:53	1	FCCU Opacity	27		
08/25 19:53	08/25 19:59	1	FCCU Opacity	27		
08/25 19:59	08/25 20:05	1	FCCU Opacity	27		
08/25 20:05	08/25 20:11	1	FCCU Opacity	27		
08/25 20:11	08/25 20:17	1	FCCU Opacity	27		
08/25 20:17	08/25 20:23	1	FCCU Opacity	27		
08/25 20:23	08/25 20:29	1	FCCU Opacity	27		
08/25 20:29	08/25 20:35	1	FCCU Opacity	27		
08/25 20:35	08/25 20:41	1	FCCU Opacity	29		
08/25 20:41	08/25 20:47	1	FCCU Opacity	30		
08/25 20:47	08/25 20:53	1	FCCU Opacity	28		
08/25 20:53	08/25 20:59	1	FCCU Opacity	27		
08/25 20:59	08/25 21:05	1	FCCU Opacity	28		
08/25 21:05	08/25 21:11	1	FCCU Opacity	28		
08/25 21:11	08/25 21:17	1	FCCU Opacity	28		
08/25 21:17	08/25 21:23	1	FCCU Opacity	28		
08/25 21:23	08/25 21:29	1	FCCU Opacity	28		
08/25 21:29	08/25 21:35	1	FCCU Opacity	28		
08/25 21:35	08/25 21:41	1	FCCU Opacity	28		
08/25 21:41	08/25 21:47	1	FCCU Opacity	28		
08/25 21:47	08/25 21:53	1	FCCU Opacity	28		
08/25 21:53	08/25 21:59	1	FCCU Opacity	28		
08/25 21:59	08/25 22:05	1	FCCU Opacity	28		
08/25 22:05	08/25 22:11	1	FCCU Opacity	28		
08/25 22:11	08/25 22:17	1	FCCU Opacity	28		
08/25 22:17	08/25 22:23	1	FCCU Opacity	28		
08/25 22:23	08/25 22:29	1	FCCU Opacity	28		
08/25 22:29	08/25 22:35	1	FCCU Opacity	28		
08/25 22:35	08/25 22:41	1	FCCU Opacity	29		
08/25 22:41	08/25 22:47	1	FCCU Opacity	28		
08/25 22:47	08/25 22:53	1	FCCU Opacity	28		
08/25 22:53	08/25 22:59	1	FCCU Opacity	28		
08/25 22:59	08/25 23:05	1	FCCU Opacity	28		
08/25 23:05	08/25 23:11	1	FCCU Opacity	28		
08/25 23:11	08/25 23:17	1	FCCU Opacity	28		
08/25 23:17	08/25 23:23	1	FCCU Opacity	28		
08/25 23:23	08/25 23:29	1	FCCU Opacity	28		
08/25 23:29	08/25 23:35	1	FCCU Opacity	28		
08/25 23:35	08/25 23:41	1	FCCU Opacity	28		
08/25 23:41	08/25 23:47	1	FCCU Opacity	27		
08/25 23:47	08/25 23:53	1	FCCU Opacity	27		
08/25 23:53	08/25 23:59	1	FCCU Opacity	28		
08/26 00:00	08/26 00:05	1	FCCU Opacity	28		
08/26 00:05	08/26 00:11	1	FCCU Opacity	28		
08/26 00:11	08/26 00:17	1	FCCU Opacity	28		
08/26 00:17	08/26 00:23	1	FCCU Opacity	28		
08/26 00:23	08/26 00:29	1	FCCU Opacity	28		
08/26 00:29	08/26 00:35	1	FCCU Opacity	28		
08/26 00:35	08/26 00:41	1	FCCU Opacity	28		
08/26 00:41	08/26 00:47	1	FCCU Opacity	28		
08/26 00:47	08/26 00:53	1	FCCU Opacity	28		
08/26 00:53	08/26 00:59	1	FCCU Opacity	28		
08/26 00:59	08/26 01:05	1	FCCU Opacity	28		
08/26 01:05	08/26 01:11	1	FCCU Opacity	28		
08/26 01:11	08/26 01:17	1	FCCU Opacity	28		
08/26 01:17	08/26 01:23	1	FCCU Opacity	28		
08/26 01:23	08/26 01:29	1	FCCU Opacity	28		
08/26 01:29	08/26 01:35	1	FCCU Opacity	28		
08/26 01:35	08/26 01:41	1	FCCU Opacity	28		

Excess Emission Report
Third Quarter 2011
Marathon Petroleum Company LP - Michigan Refining Division
Time Periods are Approximate

FCCU Opacity

Start Date/Time*	End Date/Time*	Duration of Excess Emissions (6 minute average)	Equipment	Opacity (>20%)**	Cause	Corrective Action
08/26 01:41	08/26 01:47	1	FCCU Opacity	28	At 6:20 AM on August 25, 2011, a lighting strike hit ITC structure 3001 which is approximately 4 miles from the refinery. The lightning strike caused all three phases of the 120 KV line to be felled to ground resulting in the loss of Detroit Edison's (DTE's) Transformer #102 in Ironton and a lockout of bus 102 at their Ironton Substation. As a result of the lightning strike and resulting external power failure, the Refinery shut down its operations and stabilized units.	Upon initial review, consistent with EPA's Startup Shutdown Malfunction (SSM) policy, this event qualifies for the NSPS SSM exemption as provided in 40 CFR 60.8. Specifically, events not caused by poor operation, maintenance, or design of process or control equipment are exempt from the NSPS limits provided that the emissions were minimized consistent with good air pollution control practices and repairs were made in an expeditious fashion. In this case, the emission event was caused by a lightning strike and a subsequent external power failure beyond MPC's control. MPC took immediate action to minimize emissions by shutting down the refinery operations with the exception of the FCCU. The FCCU emissions were minimized by reducing rate which in turn avoided any excess emissions that would have resulted from a subsequent FCCU startup. Furthermore, the steam produced by the FCCU ensured good flare combustion. Finally, crews worked through the night to ensure that the damaged boiler was expeditiously repaired and returned to service producing steam for the flares and the safe startup of the process units.
08/26 01:47	08/26 01:53	1	FCCU Opacity	28		
08/26 01:53	08/26 01:59	1	FCCU Opacity	28		
08/26 01:59	08/26 02:05	1	FCCU Opacity	28		
08/26 02:05	08/26 02:11	1	FCCU Opacity	28		
08/26 02:11	08/26 02:17	1	FCCU Opacity	28		
08/26 02:17	08/26 02:23	1	FCCU Opacity	28		
08/26 02:23	08/26 02:29	1	FCCU Opacity	28		
08/26 02:29	08/26 02:35	1	FCCU Opacity	28		
08/26 02:35	08/26 02:41	1	FCCU Opacity	28		
08/26 02:41	08/26 02:47	1	FCCU Opacity	28		
08/26 02:47	08/26 02:53	1	FCCU Opacity	28		
08/26 02:53	08/26 02:59	1	FCCU Opacity	28		
08/26 02:59	08/26 03:05	1	FCCU Opacity	28		
08/26 03:05	08/26 03:11	1	FCCU Opacity	28		
08/26 03:11	08/26 03:17	1	FCCU Opacity	28		
08/26 03:17	08/26 03:23	1	FCCU Opacity	28		
08/26 03:23	08/26 03:29	1	FCCU Opacity	28		
08/26 03:29	08/26 03:35	1	FCCU Opacity	28		
08/26 03:35	08/26 03:41	1	FCCU Opacity	28		
08/26 03:41	08/26 03:47	1	FCCU Opacity	28		
08/26 03:47	08/26 03:53	1	FCCU Opacity	28		
08/26 03:53	08/26 03:59	1	FCCU Opacity	28		
08/26 03:59	08/26 04:05	1	FCCU Opacity	29		
08/26 04:05	08/26 04:11	1	FCCU Opacity	28		
08/26 04:11	08/26 04:17	1	FCCU Opacity	28		
08/26 04:17	08/26 04:23	1	FCCU Opacity	28		
08/26 04:23	08/26 04:29	1	FCCU Opacity	28		
08/26 04:29	08/26 04:35	1	FCCU Opacity	28		
08/26 04:35	08/26 04:41	1	FCCU Opacity	28		
08/26 04:41	08/26 04:47	1	FCCU Opacity	28		
08/26 04:47	08/26 04:53	1	FCCU Opacity	28		
08/26 04:53	08/26 04:59	1	FCCU Opacity	28		
08/26 04:59	08/26 05:05	1	FCCU Opacity	28		
08/26 05:05	08/26 05:11	1	FCCU Opacity	28		
08/26 05:11	08/26 05:17	1	FCCU Opacity	28		
08/26 05:17	08/26 05:23	1	FCCU Opacity	28		
08/26 05:23	08/26 05:29	1	FCCU Opacity	28		
08/26 05:29	08/26 05:35	1	FCCU Opacity	28		
08/26 05:35	08/26 05:41	1	FCCU Opacity	28		
08/26 05:41	08/26 05:47	1	FCCU Opacity	28		
08/26 05:47	08/26 05:53	1	FCCU Opacity	28		
08/26 05:53	08/26 05:59	1	FCCU Opacity	29		
08/26 05:59	08/26 06:05	1	FCCU Opacity	28		
08/26 06:05	08/26 06:11	1	FCCU Opacity	28		
08/26 06:11	08/26 06:17	1	FCCU Opacity	29		
08/26 06:17	08/26 06:23	1	FCCU Opacity	28		
08/26 06:23	08/26 06:29	1	FCCU Opacity	28		
08/26 06:29	08/26 06:35	1	FCCU Opacity	28		
08/26 06:35	08/26 06:41	1	FCCU Opacity	28		
08/26 06:41	08/26 06:47	1	FCCU Opacity	28		
08/26 06:47	08/26 06:53	1	FCCU Opacity	28		
08/26 06:53	08/26 06:59	1	FCCU Opacity	28		
08/26 06:59	08/26 07:05	1	FCCU Opacity	28		
08/26 07:05	08/26 07:11	1	FCCU Opacity	28		
08/26 07:11	08/26 07:17	1	FCCU Opacity	28		
08/26 07:17	08/26 07:23	1	FCCU Opacity	28		
08/26 07:23	08/26 07:29	1	FCCU Opacity	28		
08/26 07:29	08/26 07:35	1	FCCU Opacity	28		
08/26 07:35	08/26 07:41	1	FCCU Opacity	28		

Excess Emission Report
Third Quarter 2011
Marathon Petroleum Company LP - Michigan Refining Division
Time Periods are Approximate

FCCU Opacity

Start Date/Time*	End Date/Time*	Duration of Excess Emissions (6 minute average)	Equipment	Opacity (>20%)**	Cause	Corrective Action
08/26 07:41	08/26 07:47	1	FCCU Opacity	28	At 6:20 AM on August 25, 2011, a lighting strike hit ITC structure 3001 which is approximately 4 miles from the refinery. The lightning strike caused all three phases of the 120 KV line to be felled to ground resulting in the loss of Detroit Edison's (DTE's) Transformer #102 in Ironton and a lockout of bus 102 at their Ironton Substation. As a result of the lightning strike and resulting external power failure, the Refinery shut down its operations and stabilized units.	Upon initial review, consistent with EPA's Startup Shutdown Malfunction (SSM) policy, this event qualifies for the NSPS SSM exemption as provided in 40 CFR 60.8. Specifically, events not caused by poor operation, maintenance, or design of process or control equipment are exempt from the NSPS limits provided that the emissions were minimized consistent with good air pollution control practices and repairs were made in an expeditious fashion. In this case, the emission event was caused by a lightning strike and a subsequent external power failure beyond MPC's control. MPC took immediate action to minimize emissions by shutting down the refinery operations with the exception of the FCCU. The FCCU emissions were minimized by reducing rate which in turn avoided any excess emissions that would have resulted from a subsequent FCCU startup. Furthermore, the steam produced by the FCCU ensured good flare combustion. Finally, crews worked through the night to ensure that the damaged boiler was expeditiously repaired and returned to service producing steam for the flares and the safe startup of the process units.
08/26 07:47	08/26 07:53	1	FCCU Opacity	28		
08/26 07:53	08/26 07:59	1	FCCU Opacity	28		
08/26 07:59	08/26 08:05	1	FCCU Opacity	28		
08/26 08:05	08/26 08:11	1	FCCU Opacity	28		
08/26 08:11	08/26 08:17	1	FCCU Opacity	28		
08/26 08:17	08/26 08:23	1	FCCU Opacity	28		
08/26 08:23	08/26 08:29	1	FCCU Opacity	28		
08/26 08:29	08/26 08:35	1	FCCU Opacity	28		
08/26 08:35	08/26 08:41	1	FCCU Opacity	28		
08/26 08:41	08/26 08:47	1	FCCU Opacity	28		
08/26 08:47	08/26 08:53	1	FCCU Opacity	28		
08/26 08:53	08/26 08:59	1	FCCU Opacity	29		
08/26 08:59	08/26 09:05	1	FCCU Opacity	28		
08/26 09:05	08/26 09:11	1	FCCU Opacity	28		
08/26 09:11	08/26 09:17	1	FCCU Opacity	28		
08/26 09:17	08/26 09:23	1	FCCU Opacity	28		
08/26 09:23	08/26 09:29	1	FCCU Opacity	28		
08/26 09:29	08/26 09:35	1	FCCU Opacity	28		
08/26 09:35	08/26 09:41	1	FCCU Opacity	28		
08/26 09:41	08/26 09:47	1	FCCU Opacity	28		
08/26 09:47	08/26 09:53	1	FCCU Opacity	28		
08/26 09:53	08/26 09:59	1	FCCU Opacity	28		
08/26 09:59	08/26 10:05	1	FCCU Opacity	28		
08/26 10:05	08/26 10:11	1	FCCU Opacity	28		
08/26 10:11	08/26 10:17	1	FCCU Opacity	28		
08/26 10:17	08/26 10:23	1	FCCU Opacity	28		
08/26 10:23	08/26 10:29	1	FCCU Opacity	28		
08/26 10:29	08/26 10:35	1	FCCU Opacity	28		
08/26 10:35	08/26 10:41	1	FCCU Opacity	29		
08/26 10:41	08/26 10:47	1	FCCU Opacity	28		
08/26 10:47	08/26 10:53	1	FCCU Opacity	28		
08/26 10:53	08/26 10:59	1	FCCU Opacity	28		
08/26 10:59	08/26 11:05	1	FCCU Opacity	28		
08/26 11:05	08/26 11:11	1	FCCU Opacity	28		
08/26 11:11	08/26 11:17	1	FCCU Opacity	28		
08/26 11:17	08/26 11:23	1	FCCU Opacity	28		
08/26 11:23	08/26 11:29	1	FCCU Opacity	28		
08/26 11:29	08/26 11:35	1	FCCU Opacity	27		
08/26 11:35	08/26 11:41	1	FCCU Opacity	28		
08/26 11:41	08/26 11:47	1	FCCU Opacity	28		
08/26 11:47	08/26 11:53	1	FCCU Opacity	28		
08/26 11:53	08/26 11:59	1	FCCU Opacity	28		
08/26 11:59	08/26 12:05	1	FCCU Opacity	28		
08/26 12:05	08/26 12:11	1	FCCU Opacity	28		
08/26 12:11	08/26 12:17	1	FCCU Opacity	28		
08/26 12:17	08/26 12:23	1	FCCU Opacity	28		
08/26 12:23	08/26 12:29	1	FCCU Opacity	28		
08/26 12:29	08/26 12:35	1	FCCU Opacity	28		
08/26 12:35	08/26 12:41	1	FCCU Opacity	28		
08/26 12:41	08/26 12:47	1	FCCU Opacity	28		
08/26 12:47	08/26 12:53	1	FCCU Opacity	28		
08/26 12:53	08/26 12:59	1	FCCU Opacity	28		
08/26 12:59	08/26 13:05	1	FCCU Opacity	28		
08/26 13:05	08/26 13:11	1	FCCU Opacity	28		
08/26 13:11	08/26 13:17	1	FCCU Opacity	28		
08/26 13:17	08/26 13:23	1	FCCU Opacity	28		
08/26 13:23	08/26 13:29	1	FCCU Opacity	28		
08/26 13:29	08/26 13:35	1	FCCU Opacity	28		
08/26 13:35	08/26 13:41	1	FCCU Opacity	28		

Excess Emission Report
Third Quarter 2011
Marathon Petroleum Company LP - Michigan Refining Division
Time Periods are Approximate

FCCU Opacity

Start Date/Time*	End Date/Time*	Duration of Excess Emissions (6 minute average)	Equipment	Opacity (>20%)**	Cause	Corrective Action
08/26 13:41	08/26 13:47	1	FCCU Opacity	28	At 6:20 AM on August 25, 2011, a lighting strike hit ITC structure 3001 which is approximately 4 miles from the refinery. The lightning strike caused all three phases of the 120 KV line to be felled to ground resulting in the loss of Detroit Edison's (DTE's) Transformer #102 in Ironton and a lockout of bus 102 at their Ironton Substation. As a result of the lightning strike and resulting external power failure, the Refinery shut down its operations and stabilized units.	Upon initial review, consistent with EPA's Startup Shutdown Malfunction (SSM) policy, this event qualifies for the NSPS SSM exemption as provided in 40 CFR 60.8. Specifically, events not caused by poor operation, maintenance, or design of process or control equipment are exempt from the NSPS limits provided that the emissions were minimized consistent with good air pollution control practices and repairs were made in an expeditious fashion. In this case, the emission event was caused by a lightning strike and a subsequent external power failure beyond MPC's control. MPC took immediate action to minimize emissions by shutting down the refinery operations with the exception of the FCCU. The FCCU emissions were minimized by reducing rate which in turn avoided any excess emissions that would have resulted from a subsequent FCCU startup. Furthermore, the steam produced by the FCCU ensured good flare combustion. Finally, crews worked through the night to ensure that the damaged boiler was expeditiously repaired and returned to service producing steam for the flares and the safe startup of the process units.
08/26 13:47	08/26 13:53	1	FCCU Opacity	28		
08/26 13:53	08/26 13:59	1	FCCU Opacity	28		
08/26 13:59	08/26 14:05	1	FCCU Opacity	28		
08/26 14:05	08/26 14:11	1	FCCU Opacity	28		
08/26 14:11	08/26 14:17	1	FCCU Opacity	30		
08/26 14:17	08/26 14:23	1	FCCU Opacity	28		
08/26 14:23	08/26 14:29	1	FCCU Opacity	28		
08/26 14:29	08/26 14:35	1	FCCU Opacity	28		
08/26 14:35	08/26 14:41	1	FCCU Opacity	28		
08/26 14:41	08/26 14:47	1	FCCU Opacity	28		
08/26 14:47	08/26 14:53	1	FCCU Opacity	28		
08/26 14:53	08/26 14:59	1	FCCU Opacity	28		
08/26 14:59	08/26 15:05	1	FCCU Opacity	28		
08/26 15:05	08/26 15:11	1	FCCU Opacity	28		
08/26 15:11	08/26 15:17	1	FCCU Opacity	28		
08/26 15:17	08/26 15:23	1	FCCU Opacity	28		
08/26 15:23	08/26 15:29	1	FCCU Opacity	28		
08/26 15:29	08/26 15:35	1	FCCU Opacity	28		
08/26 15:35	08/26 15:41	1	FCCU Opacity	28		
08/26 15:41	08/26 15:47	1	FCCU Opacity	28		
08/26 15:47	08/26 15:53	1	FCCU Opacity	29		
08/26 15:53	08/26 15:59	1	FCCU Opacity	28		
08/26 15:59	08/26 16:05	1	FCCU Opacity	28		
08/26 16:05	08/26 16:11	1	FCCU Opacity	28		
08/26 16:11	08/26 16:17	1	FCCU Opacity	29		
08/26 16:17	08/26 16:23	1	FCCU Opacity	29		
08/26 16:23	08/26 16:29	1	FCCU Opacity	28		
08/26 16:29	08/26 16:35	1	FCCU Opacity	28		
08/26 16:35	08/26 16:41	1	FCCU Opacity	28		
08/26 16:41	08/26 16:47	1	FCCU Opacity	28		
08/26 16:47	08/26 16:53	1	FCCU Opacity	28		
08/26 16:53	08/26 16:59	1	FCCU Opacity	28		
08/26 16:59	08/26 17:05	1	FCCU Opacity	28		
08/26 17:05	08/26 17:11	1	FCCU Opacity	29		
08/26 17:11	08/26 17:17	1	FCCU Opacity	29		
08/26 17:17	08/26 17:23	1	FCCU Opacity	29		
08/26 17:23	08/26 17:29	1	FCCU Opacity	28		
08/26 17:29	08/26 17:35	1	FCCU Opacity	29		
08/26 17:35	08/26 17:41	1	FCCU Opacity	29		
08/26 17:41	08/26 17:47	1	FCCU Opacity	29		
08/26 17:47	08/26 17:53	1	FCCU Opacity	29		
08/26 17:53	08/26 17:59	1	FCCU Opacity	29		
08/26 17:59	08/26 18:05	1	FCCU Opacity	29		
08/26 18:05	08/26 18:11	1	FCCU Opacity	29		
08/26 18:11	08/26 18:17	1	FCCU Opacity	28		
08/26 18:17	08/26 18:23	1	FCCU Opacity	29		
08/26 18:23	08/26 18:29	1	FCCU Opacity	29		
08/26 18:29	08/26 18:35	1	FCCU Opacity	29		
08/26 18:35	08/26 18:41	1	FCCU Opacity	29		
08/26 18:41	08/26 18:47	1	FCCU Opacity	29		
08/26 18:47	08/26 18:53	1	FCCU Opacity	29		
08/26 18:53	08/26 18:59	1	FCCU Opacity	28		
08/26 18:59	08/26 19:05	1	FCCU Opacity	29		
08/26 19:05	08/26 19:11	1	FCCU Opacity	29		
08/26 19:11	08/26 19:17	1	FCCU Opacity	29		
08/26 19:17	08/26 19:23	1	FCCU Opacity	29		
08/26 19:23	08/26 19:29	1	FCCU Opacity	29		
08/26 19:29	08/26 19:35	1	FCCU Opacity	29		
08/26 19:35	08/26 19:41	1	FCCU Opacity	29		

Excess Emission Report
Third Quarter 2011
Marathon Petroleum Company LP - Michigan Refining Division
Time Periods are Approximate

FCCU Opacity

Start Date/Time*	End Date/Time*	Duration of Excess Emissions (6 minute average)	Equipment	Opacity (>20%)**	Cause	Corrective Action
08/26 19:41	08/26 19:47	1	FCCU Opacity	29	At 6:20 AM on August 25, 2011, a lighting strike hit ITC structure 3001 which is approximately 4 miles from the refinery. The lightning strike caused all three phases of the 120 KV line to be felled to ground resulting in the loss of Detroit Edison's (DTE's) Transformer #102 in Ironton and a lockout of bus 102 at their Ironton Substation. As a result of the lightning strike and resulting external power failure, the Refinery shut down its operations and stabilized units.	Upon initial review, consistent with EPA's Startup Shutdown Malfunction (SSM) policy, this event qualifies for the NSPS SSM exemption as provided in 40 CFR 60.8. Specifically, events not caused by poor operation, maintenance, or design of process or control equipment are exempt from the NSPS limits provided that the emissions were minimized consistent with good air pollution control practices and repairs were made in an expeditious fashion. In this case, the emission event was caused by a lightning strike and a subsequent external power failure beyond MPC's control. MPC took immediate action to minimize emissions by shutting down the refinery operations with the exception of the FCCU. The FCCU emissions were minimized by reducing rate which in turn avoided any excess emissions that would have resulted from a subsequent FCCU startup. Furthermore, the steam produced by the FCCU ensured good flare combustion. Finally, crews worked through the night to ensure that the damaged boiler was expeditiously repaired and returned to service producing steam for the flares and the safe startup of the process units.
08/26 19:47	08/26 19:53	1	FCCU Opacity	29		
08/26 19:53	08/26 19:59	1	FCCU Opacity	29		
08/26 19:59	08/26 20:05	1	FCCU Opacity	29		
08/26 20:05	08/26 20:11	1	FCCU Opacity	29		
08/26 20:11	08/26 20:17	1	FCCU Opacity	29		
08/26 20:17	08/26 20:23	1	FCCU Opacity	29		
08/26 20:23	08/26 20:29	1	FCCU Opacity	29		
08/26 20:29	08/26 20:35	1	FCCU Opacity	29		
08/26 20:35	08/26 20:41	1	FCCU Opacity	29		
08/26 20:41	08/26 20:47	1	FCCU Opacity	29		
08/26 20:47	08/26 20:53	1	FCCU Opacity	30		
08/26 20:53	08/26 20:59	1	FCCU Opacity	29		
08/26 20:59	08/26 21:05	1	FCCU Opacity	29		
08/26 21:05	08/26 21:11	1	FCCU Opacity	29		
08/26 21:11	08/26 21:17	1	FCCU Opacity	29		
08/26 21:17	08/26 21:23	1	FCCU Opacity	29		
08/26 21:23	08/26 21:29	1	FCCU Opacity	29		
08/26 21:29	08/26 21:35	1	FCCU Opacity	29		
08/26 21:35	08/26 21:41	1	FCCU Opacity	29		
08/26 21:41	08/26 21:47	1	FCCU Opacity	29		
08/26 21:47	08/26 21:53	1	FCCU Opacity	29		
08/26 21:53	08/26 21:59	1	FCCU Opacity	29		
08/26 21:59	08/26 22:05	1	FCCU Opacity	29		
08/26 22:05	08/26 22:11	1	FCCU Opacity	28		
08/26 22:11	08/26 22:17	1	FCCU Opacity	29		
08/26 22:17	08/26 22:23	1	FCCU Opacity	29		
08/26 22:23	08/26 22:29	1	FCCU Opacity	28		
08/26 22:29	08/26 22:35	1	FCCU Opacity	30		
08/26 22:35	08/26 22:41	1	FCCU Opacity	29		
08/26 22:41	08/26 22:47	1	FCCU Opacity	29		
08/26 22:47	08/26 22:53	1	FCCU Opacity	29		
08/26 22:53	08/26 22:59	1	FCCU Opacity	29		
08/26 22:59	08/26 23:05	1	FCCU Opacity	28		
08/26 23:05	08/26 23:11	1	FCCU Opacity	28		
08/26 23:11	08/26 23:17	1	FCCU Opacity	28		
08/26 23:17	08/26 23:23	1	FCCU Opacity	28		
08/26 23:23	08/26 23:29	1	FCCU Opacity	28		
08/26 23:29	08/26 23:35	1	FCCU Opacity	28		
08/26 23:35	08/26 23:41	1	FCCU Opacity	29		
08/26 23:41	08/26 23:47	1	FCCU Opacity	29		
08/26 23:47	08/26 23:53	1	FCCU Opacity	29		
08/26 23:53	08/26 23:59	1	FCCU Opacity	28		
08/27 00:00	08/27 00:05	1	FCCU Opacity	29		
08/27 00:05	08/27 00:11	1	FCCU Opacity	29		
08/27 00:11	08/27 00:17	1	FCCU Opacity	29		
08/27 00:17	08/27 00:23	1	FCCU Opacity	29		
08/27 00:23	08/27 00:29	1	FCCU Opacity	29		
08/27 00:29	08/27 00:35	1	FCCU Opacity	29		
08/27 00:35	08/27 00:41	1	FCCU Opacity	28		
08/27 00:41	08/27 00:47	1	FCCU Opacity	28		
08/27 00:47	08/27 00:53	1	FCCU Opacity	28		
08/27 00:53	08/27 00:59	1	FCCU Opacity	28		
08/27 00:59	08/27 01:05	1	FCCU Opacity	27		
08/27 01:05	08/27 01:11	1	FCCU Opacity	27		
08/27 01:11	08/27 01:17	1	FCCU Opacity	27		
08/27 01:17	08/27 01:23	1	FCCU Opacity	28		
08/27 01:23	08/27 01:29	1	FCCU Opacity	28		
08/27 01:29	08/27 01:35	1	FCCU Opacity	27		
08/27 01:35	08/27 01:41	1	FCCU Opacity	27		
	Total hours	**45.3**				
	Operating Hours	**2208**				
	% Excess Emissions	**2.05**				

*The start time and end time are approximate.
**Opacity limit is 20% (6-minute average)

MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
AIR QUALITY DIVISION

RENEWABLE OPERATING PERMIT
REPORT CERTIFICATION

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Natural Resources and Environment, Air Quality Division upon request.

Source Name: Marathon Petroleum Company LP County: Wayne

Source Address: 1300 South Fort Street City: Detroit

AQD Source ID (SRN): A9831 ROP No.: 199700013c ROP Section No.: 01

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.

☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.

☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 7/1/2011 To 9/30/2011

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

3rd Quarter 2011 Continuous Emission Monitoring (CEMS) Downtime and Excess Emission Report.

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

C.T. Case	MPC Investment LLC, its General Partner Deputy Assistant Secretary	313-843-9100
Name of Responsible Official (print or type)	Title	Phone Number
C. T. Case		10/11/11
Signature of Responsible Official		Date

* Photocopy this form as needed.

EQP 5736 (Rev 2-10)